

GenCore version 5.1.6
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OM protein - protein search, using sw model
 Run on: March 31, 2004, 10:44:53 ; Search time 58 Seconds
 (Without alignments)
 798.927 Million cell updates/sec

Title: US-10-020-618-1

Perfect score: 852

Sequence: 1 MASHQERPRGDLIEIFRLG.....ILVAGCSFKIRRYOKATA 164

Scoring table: Blosum62
 Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
 Maximum DB seq length: 0
 Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : A_Geneseq_29Jan04;*
 1: geneseq1990s;*
 2: geneseq2000s;*
 3: geneseq2001s;*
 4: geneseq2002s;*
 5: geneseq2003as;*
 6: geneseq2003bs;*
 7: geneseq2004s;*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query %	Match Length	DB ID	Description	RESULT ID	ID	AAW85736 standard; protein; 164 AA.	DE	Human analogue of human H-rev107-protein homologue.
1	851	99.9	164	2	AAW85736 Human ana	AAW85736;	XX			
2	850	99.9	164	2	AAW85736 Human H-rev107	AAW85736;	XX			
3	840	98.6	164	2	AAW85736 Human H-rev107	AAW85736;	XX			
4	840	98.6	164	4	Aae12165 Human taz	AAW85736;	XX			
5	839	98.5	164	2	AAW85736 Human taz	AAW85736;	XX			
6	839	98.5	164	4	Aae12165 Human taz	AAW85736;	XX			
7	839	98.5	164	6	AAW85736 Human taz	AAW85736;	XX			
8	839	98.5	164	6	AAW85736 Human taz	AAW85736;	XX			
9	827	97.1	163	2	AAW85736 Human taz	AAW85736;	XX			
10	623	73.1	124	2	AAW85736 Human taz	AAW85736;	XX			
11	623	73.1	124	4	AAW85736 Human taz	AAW85736;	XX			
12	423.5	49.7	160	7	ADD47497 Rat Prote	(SAGA) PROTEGENE INC.	XX			
13	423.5	49.7	161	7	ADD47497 Rat Prote	(SAGA) PROTEGENE INC.	XX			
14	418.5	49.1	162	4	ADD47497 Rat Prote	Kato S, Sakine S;	XX			
15	418.5	49.1	162	7	ADD47497 Rat Prote	Kato S, Sakine S;	XX			
16	418.5	49.1	162	7	ADD47497 Rat Prote	Kato S, Sakine S;	XX			
17	418.5	49.1	169	4	ADD47497 Rat Prote	WPI; 1999-277267/23.	DR			
18	417.5	49.0	162	7	ADD47497 Rat Prote	N-PSDB; AAX08737, AAX08743.	DR			
19	415.5	48.8	169	3	ADD47497 Rat Prote	PT	XX			
20	411.5	48.3	162	7	ADD47497 Rat Prote	Human transmembrane proteins and nucleotide sequences.	PT			
21	350	41.1	168	4	ADD47497 Rat Prote	Claim 1; page 70-71; 96pp; English.	PT			
22	350	41.1	168	4	ADD47497 Rat Prote	Claim 1; page 70-71; 96pp; English.	PT			
23	350	41.1	168	4	ADD47497 Rat Prote	Claim 1; page 70-71; 96pp; English.	PT			
24	345	40.5	237	4	ADD47497 Rat Prote	Claim 1; page 70-71; 96pp; English.	PT			
25	345	40.5	237	4	ADD47497 Rat Prote	Claim 1; page 70-71; 96pp; English.	PT			

CC invention can be used in research; as nutritional supplements; for cell
 CC proliferation; cell differentiation or cytokine activity or to induce the
 CC production of cytokines; for immune stimulating or suppressing activity; for
 CC i.e. generation of antibodies; for haemopoiesis regulating activity; for
 CC tissue growth activity; for activating/inhibiting activity; for
 CC chemotactic/chemokinetic activity; for haemostatic and thrombolytic
 CC activity; for receptor/ligand activity; for anti-inflammatory activity or
 CC for tumour inhibition activity

SQ Sequence 164 AA;

Query Match 99.9%; Score 851; DB 2; Length 164;
 Best Local Similarity 99.4%; Pred. No. 1.5e-89;
 Matches 163; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MASPHQEPPKGDLIEIFRIGYEHWALYIGDGIVHLAPPSEYPGAGSSSVFVLSNAEV 60
 1 MASPHQEPPKGDLIEIFRIGYEHWALYIGDGIVHLAPPSEYPGAGSSSVFVLSNAEV 60

QY 61 KRSRLEDYVGCCYRVNSLDHYQPPEVVISSAKEMVQGMKYSIVSRNCEHFVTL 120
 61 KRSRLEDYVGCCYRVNSLDHYQPPEVVISSAKEMVQGMKYSIVSRNCEHFVTL 120

Db 121 RYGKSRCKOKEKAKVEVGVATALGILVAGCSFAIRYOKKATA 164
 121 RYGKSRCKOKEKAKVEVGVATALGILVAGCSFAIRYOKKATA 164

Db

RESULT 2

ID AAW29736 standard; protein; 164 AA.

XX AAW29736;

AC AC

XX DT 10-NOV-1998 (first entry)

DE Human H-rev 107-like protein (HREVP).

XX KW Human; H-rev 107-like protein; HREVP; prevention; diagnosis; cancer; autoimmune disorder.

XX OS Homo sapiens.

OS XX

XX Key Location/Qualifiers

FT Misc-difference 154 /Label= unknown
 /note= "encoded by gng"

FT MC9836063-A1.

PN 9BWO-US002537.

PR 14-FEB-1997; 97US-00001742.

XX PA (INCY-) INCYTE PHARM INC.

PI Bandman O, Goli SK;

XX WPI; 1998-457113/39.

DR N-PSDB; AAV36092.

XX PR 10-FEB-1998; 9BWO-US002537.

XX PS Example 2; Col 29-32; 20pp; English.

The present sequence is encoded by the full length cDNA sequence of tazarotene inducible gene-3 (TIG3). The cDNA sequence was obtained by alignment and combination of sequences AAV36098 and AAV36091. The specification describes a method for identifying compounds suitable for treating hyperproliferative disorders of the skin. The method comprises analysing samples of untreated and treated cultures of skin cells for presence of RNA from the TIG3 gene. If the treated sample has a higher concentration of the RNA than the control, then the test compound is identified as suitable for use as a treatment. The method is used to identify compounds which are potentially useful for treating psoriasis, acne or a wide range of dysplasias and cancers

SQ Sequence 164 AA;

Query Match 99.8%; Score 850; DB 2; Length 164;
 Best Local Similarity 100.0%; Pred. No. 2.8e-89;
 Matches 164; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPHQEPPKGDLIEIFRIGYEHWALYIGDGIVHLAPPSEYPGAGSSSVFVLSNAEV 60
 1 MASPHQEPPKGDLIEIFRIGYEHWALYIGDGIVHLAPPSEYPGAGSSSVFVLSNAEV 60

QY 61 KRSRLEDYVGCCYRVNSLDHYQPPEVVISSAKEMVQGMKYSIVSRNCEHFVTL 120
 61 KRSRLEDYVGCCYRVNSLDHYQPPEVVISSAKEMVQGMKYSIVSRNCEHFVTL 120

Db 121 RYGKSRCKOKEKAKVEVGVATALGILVAGCSFAIRYOKKATA 164
 121 RYGKSRCKOKEKAKVEVGVATALGILVAGCSFAIRYOKKATA 164

Db

RESULT 3

ID AAW60726 standard; protein; 164 AA.

XX AC AAW60726;

XX DT 02-SEP-1998 (first entry)

DE Full length tazarotene inducible Gene-3 (TIG3) protein sequence.

XX KW Tazarotene inducible gene-3; TIG3; identification; compound; treatment; hyperproliferative skin disorder; psoriasis; acne; dysplasia; cancer.

XX OS Homo sapiens.

OS XX

PN US5776687-A.

XX PD 07-JUL-1998.

XX PF 28-FEB-1997; 97US-00808303.

XX PR 28-FEB-1997; 97US-00808303.

XX FA (ALLR) ALLERGAN.

XX PI Disprio D, Nagpal S, Chandraratna RA;

XX DR WPI; 1998-398020/34.

XX PT Identifying agents for treating hyper-proliferative skin diseases - from ability to induce tazarotene inducible gene-3 mRNA in cultured skin cells.

XX PS Example 2; Col 29-32; 20pp; English.

The present sequence is encoded by the full length cDNA sequence of tazarotene inducible gene-3 (TIG3). The cDNA sequence was obtained by alignment and combination of sequences AAV36098 and AAV36091. The specification describes a method for identifying compounds suitable for treating hyperproliferative disorders of the skin. The method comprises analysing samples of untreated and treated cultures of skin cells for presence of RNA from the TIG3 gene. If the treated sample has a higher concentration of the RNA than the control, then the test compound is identified as suitable for use as a treatment. The method is used to identify compounds which are potentially useful for treating psoriasis, acne or a wide range of dysplasias and cancers

SQ Sequence 164 AA;

Query Match 98.6%; Score 840; DB 2; Length 164;
 Best Local Similarity 98.2%; Pred. No. 2.8e-88;
 Matches 161; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

CC The present sequence represents human H-rev 107-like protein (HREVP). The
 CC HREVP nucleic acid and protein can be used for the diagnosis, prevention
 CC or treatment of cancer or autoimmune disorders

XX

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Om protein - protein search, using sw model

Run on: March 31, 2004, 10:51:49 ; Search time: 21 Seconds
 (without alignments)
 (551.210 Million cell updates/sec)

Title: US-10-020-618-1

perfect score: 852

Sequence: 1 MASPHQERPGDLEIFRIGG.....ILVWAGCSFXIRRQKATA 164

Scoring table: BLOSUM62

Gappen 10.0 , Gapext: 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database :

1: PIR_78:*

2: pir1:*

3: pir2:*

4: pir3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description	
1	423.5	49.7	160	SG2794 p18H-rev 107 protein - rat	
2	102	12.0	159	B82470 H-REV 107-related	
3	92	10.8	1737	A37491 hypothetical helic	
4	87.5	10.3	191	T0306 hypothetical prote	
5	83.5	9.8	510	conserved hypothet	
6	80	9.4	510	conserved hypothet	
7	79.5	9.3	847	conserved hypothet	
8	77.5	9.1	197	conserved hypothet	
9	77	9.0	230	hypothetical prote	
10	75.5	8.9	23424	probable secreted	
11	75.5	8.9	AC22351	glycine cleavage T	
12	75	8.8	554642	C;Species: Vibrio cholerae	
13	74.5	8.7	G362239	C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 02-Feb-2001	
14	74	8.7	T29493	C;Accession: B82470 R;Hideberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Dodson, R.J.; chardson, D.; Emalaeva, M.D.; Vamathevan, J.J.; Bass, S.; Qin, H.; Dragoi, I.; Sellers, P.	
15	73.5	8.6	671	hypothetical prote	
16	72.5	8.5	397	DNA ligase (NAD) {	
17	72.5	8.5	720	hypothetical prote	
18	72	8.5	T17221	replication licens	
19	72	8.5	S18245	xylF protein - Pse	
20	72	8.5	363	probable protein-t	
21	72	8.5	363	protein B0523.1 [i]	
22	72	8.5	408	probable mutator-1	
23	72	8.5	895	Mutator-like trans	
24	71.5	8.4	1277	probable mutator-1	
25	71.5	8.4	270	phage lambda-relat	
26	71.5	8.4	F64050	glucosamine-6-phos	
27	71.5	8.4	693	pilus biogenesis P	
28	71.5	8.4	408	probable outer mem	
29	71.5	8.4	849	integrin alpha cha	
30	71	8.3	107	integrin alpha cha	
31	71	8.3	129	hypothetical prote	
32	71	8.3	553	conserved hypothet	
33	71	8.3	2	methyl-accepting c	
34	71	8.3	556	hypothetical prote	
35	71	8.3	2	hepatoma-derived g	
36	70.5	8.3	1286	hypothetical prote	
37	70.5	8.3	1	mannose/glucose-bi	
38	70.5	8.3	293	lipa protein - Nei	
39	70.5	8.3	400	hypothetical Prote	
40	70.5	8.3	2	DNA ligase I import	
41	70.5	8.3	647	proxidase (EC 1.1	
42	70	8.2	671	formate hydrogeni	
43	70	8.2	2	oxygen-sensitive r	
44	70	8.2	702	ryanodine receptor	
45	70	8.2	496559	ryanodine receptor	
			5032	5035	14646

ALIGNMENTS

RESULT 1

S42794

Query Match Similarity 49.7%; Score 423.5; DB 2; length 160;
 Best Local Similarity 52.5%; Pred. No. 3.6e-34; Matches 83; Conservative 24; Mismatches 50; Indels 1; Gaps 1;

Submitted to the EMBL Data Library, November 1993

A;Reference number: S42794

A;Status: preliminary

A;Molecule type: mRNA

A;Cross-references: EMBL:X76453; NID:g433962; PIDN:CAAS3991.1; PID:g433963

QY

Db

4 PHOSPKPSNLIEFRIGLYEHWAFLYIGQSYVILMAPSEYPGAGSSSYFSVLNSAVERE 63

2 PIPAKPKGDLIEIFRPMSWAIYVGDIIVIHLAPPBSPITPGACAAISLTDKATKKE 61

QY

64 RLEUVUGGCCYRNLSIHEYQRPVEVIISSAKEMQGQMKYSIVERNCEFVTOLRYG 123

Db

62 LIRDVAGKDYQVNKKHKEYTPLPLNKIIQRAEELVQBEVYRLTSENCEHFVNELRYG 121

QY

124 KSRCKQVERKARVEGVNATLAGILVWAGCSFXIRRQKQ 161

Db

122 VPRSDQV-RDTVKVATVWGVGLAALGIGVMLSRNKKQ 158

RESULT 2

B82470

H-REV 107-related protein VCA0346 [Imported] - Vibrio cholerae (strain N16961 serogroup O

C;Species: Vibrio cholerae

C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 02-Feb-2001

C;Accession: B82470 R;Hideberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Dodson, R.J.; chardson, D.; Emalaeva, M.D.; Vamathevan, J.J.; Bass, S.; Qin, H.; Dragoi, I.; Sellers, P.

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-159 <HET>

A;Cross-references: GB:AB004372; GB:AB003853; NID:g9657741; PIDN:ABP96254.1; GSPDB:GN001;

A;Experimental source: serogroup O1; strain N16961; biotype El Tor

C;Genetics:

A;Gene: VCA0346

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Run on: March 31, 2004, 10:48:44 ; Search time 18 Seconds
(without alignments)
474,417 Million cell updates/sec

Title: US-10-020-618-1

Perfect score: 852

Sequence: I MASHQEQPKPGDLEIFRIG.....ILWVAGGSFXIRRYQKATA 164

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_42;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	851	99.9	TIG3_HUMAN	TIG3_HUMAN STANDARD; PRT; 164 AA.
2	423.5	49.7	HRSL_MOUSE	ID TIG3_HUMAN STANDARD; PRT; 164 AA.
3	418.5	49.1	HRSL_HUMAN	AC Q9UI19; 095200; DT 28-FEB-2003 (Rel. 41, Last sequence update)
4	407.5	47.8	HRSL_HUMAN	DT 10-Oct-2003 (Rel. 42, Last annotation update)
5	382	44.8	HRPS_MOUSE	DE Retinoic acid receptor responder protein 3 (Tazarotene-induced gene 3 protein) (RAR-responsive protein TIG3) (Retinoid inducible gene 1)
6	380	44.6	HRPS_HUMAN	DE protein).
7	350	41.1	HRSL_HUMAN	GN RARBS3 OR TIG3 OR RIGI.
8	332.5	39.0	HRSL_MOUSE	OS Homo sapiens (Human); OC Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
9	92	10.8	POLN_SOYU3	RN [1] RQ176544; 09606; RP SEQUENCE FROM N.A.
10	77	9.0	GNFR_HUMAN	RN Jiang S.-Y., Huang S.-L., Shyu R.-Y., Yeh M.-Y.; RT "Cloning and characterization of a novel retinoic acid inducible gene RIGI from human gastric cancer cells."; RT Submitted (SEP-1998) to the EMBL/GenBank/DBJ databases.
11	75	8.8	GCST_YEAST	RN [2] RQ176545; 09606; RP SEQUENCE FROM N.A.
12	72.5	8.5	YG01_ANASP	RN RQ176546; 09606; RP TISSUE=LUNG;
13	72.5	8.5	MCM7_XENLA	RN MEDLINE=9906149; PubMed=9843971; RA Chandraratna R.A.S., Nagpal S.; RT "Identification and characterization of a retinoid-induced class II tumor suppressor/growth regulatory gene.;" RT proc. Natl. Acad. Sci. U.S.A. 95:14811-14815(1998). [3]
14	72	8.5	XYL1_PSEPU	RN Kato S.; RA Strasberg R.L., Feingold E.A., Grouse L.H., Derge J.G., RL Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.
15	72	8.5	KT31_CAEEL	RN [4] RQ176547; 09606; RP SEQUENCE FROM N.A.
16	71.5	8.4	NAG8_HAEM	RN RQ176548; 09606; RP TISSUE=LUNG;
17	71.5	8.4	MUT1_XANCP	RN MEDLINE=22388257; PubMed=12477932; RA Strasberg R.L., Feingold E.A., Grouse L.H., Derge J.G., RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., RA Altschul S.F., Zeeberg B., Butow K.H., Schaefer C.F., Blat N.K., RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J.J., Hsieh P., RA Diachenko L., Marsina K., Farmer A.A., Rubin G.M., Hong L., RA Stapleton M., Soares M.B., Ronald M.F., Casavant T.L., Scheetz T.E., RA Brownstein M.J., Udin T.B., Toshiyuki S., Carninci P., Prange C., RA Rhee S.S., Loqueline N.A., Peters G.J., Abramson R.D., Mullany S.J., RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunnarsson P.H., RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., RA Fahay J., Helton E., Keightman M., Madan A., Rodriguez S., Sanchez A., RA Whiting M., Madan A., Young A.C., Shaverdin Y., Bouffard G.G., RA Blakesley R.W., Toochman J.W., Green E.D., Dickson M.C., RA Rodriguez A.C., Grinwood J., Schmutz J., Myers R.M., RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., RA Scherich A., Schein J.E., Jones S.J.M., Marra M.A., Smailus D.E., RA RT "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences."; RT
18	71.5	8.4	PMPE_CHLOR	RQ176549; 09606; RA
19	71.5	8.4	ITAB_DROME	RQ176550; 09606; RA
20	71	8.3	YK15_YEAST	RQ176551; 09606; RA
21	70.5	8.3	LECI_CLAU2	RQ176552; 09606; RA
22	70.5	8.3	NOG1_YEAST	RQ176553; 09606; RA
23	70.5	8.3	PERO_DROME	RQ176554; 09606; RA
24	70	8.2	RYR1_PIG	RQ176555; 09606; RA
25	70	8.2	50381_RYR1_HUMAN	RQ176556; 09606; RA
26	70	8.2	TDP_DROME	RQ176557; 09606; RA
27	69.5	8.2	PGKA_TRYB	RQ176558; 09606; RA
28	69.5	8.2	37781_YSB9_CAEEL	RQ176559; 09606; RA
29	69.5	8.2	DPA4_BPR69	RQ176560; 09606; RA
30	69	8.1	3481_N33_HUMAN	RQ176561; 09606; RA
31	69	8.1	RNR_AQUAE	RQ176562; 09606; RA
32	69	8.1	7051_MEET_MENUA	RQ176563; 09606; RA
33	68.5	8.0	Q58605_methionococc	RQ176564; 09606; RA

ALIGNMENTS

34	68.5	8.0	632	1	S6AB_HUMAN	F48066 homo sapien
35	68.5	8.0	671	1	DNLQ_ECOLI	P15042 escherichia
36	68	8.0	162	1	CITC_ONCHO	P22085 onchocerca
37	68	8.0	697	1	AD26_MOUSE	Q9158 mus musculus
38	67.5	7.9	249	1	HYUE_PSESN	Q0924 pseudomonas
39	67.5	7.9	5327	1	MACE_MOUSE	Opxx0 mus musculus
40	67	7.9	772	1	CADD_HUMAN	Q9159 homo sapien
41	66.5	7.8	217	1	MMC1_METAC	P58867 metathoracica
42	66.5	7.8	248	1	KAD_GIALA	P49982 giardia lamblia
43	66.5	7.8	292	1	DHT_SHEEP	P51975 ovis aries
44	66.5	7.8	359	1	MTD_FRAAN	Q9zrf1 fragaria ananassa
45	66.5	7.8	444	1	HSLU_HAETIN	P43773 haemophilus

RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 CC -!- FUNCTION: May be a growth regulator that mediates some of the
 CC growth suppressive effects of retinoids;
 CC -!- TISSUE SPECIFICITY: Expressed in many tissues. Not expressed in
 CC heart, brain, and testis.
 -!- INDUCTION: By tazarotene.
 CC -!- SIMILARITY: Belongs to the H-rev107 family.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use by non-profit institutions as long as its content is in no way
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 CC or send an email to license@isb-sib.ch).

DR EMBL; AF092922; AAC02294_1; -.
 DR EMBL; AF06228; AAC04001_1; -.
 DR EMBL; AB030815; BAB08109_1; -.
 DR EMBL; BC009678; AAH09678_1; -.
 DR Genew; HGNC:9869; RARE3.
 DR NMIM; 605092; -.
 DR Interpro; IPR007053; NC.
 DR PFM; PF0970; NC; 1.
 FT CONFLICT 63 63 E -> G (IN REF. 2).
 FT CONFLICT 118 118 T -> A (IN REF. 2).
 FT SEQUENCE 164 AA; 18179 MW; 95625B8FD375FD38 CRC64;

Query Match 99.9%; Score 851; DB 1; Length 164;
 Best Local Similarity 99.4%; Pred. No. 3; 5e-77; Indels 1; Gaps 0;
 Matches 163; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MASPHOPKPGALIEFPRGYEHWALYIGGYVHLAPSEYRAGSSVFSLNSAV 60
 Db 1 MASPHOPKPGALIEFPRGYEHWALYIGGYVHLAPSEYRAGSSVFSLNSAV 60

QY 61 KERLEUVGCGYRVNSLDHEYQPRPVVISSAKEMQKOMKYSIVSRNCHFPTOL 120
 Db 61 KERLEDVUGGCYRVNSLDHEYQPRPVVISSAKEMQKOMKYSIVSRNCHFPTOL 120

QY 121 RYKSRCKQVEKVKVEVGNTAQLGILVAGCFSXKIRYQKATA 164
 Db 121 RYKSRCKQVEKVKVEVGNTAQLGILVAGCFSXKIRYQKATA 164

RESULT 2

HRS3-BAT STANDARD; PRT; 160 AA.
 ID HRS3-BAT
 AC B53817;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Hras-like suppressor 3 (H-rev 107 protein).
 GN HRSAS3 OR HREV107 OR H-REV107.
 OS Ratius norvegicus (Rat).
 OC Bivalvia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Butheria; Primates; Catarzhini; Hominidae; Homo.
 RN [1] Sequence from N.A.
 RP TISSUE-Liver;
 RX MEDLINE=98442971; PubMed=9771974;
 RA Husmann K., Sers C., Fietze E., Mincheva A., Lichter P., Schafer R.;
 RT "transcriptional and translational down-regulation of H-REV107, a class
 RT II tumour suppressor gene located on human chromosome 11q11-12.";
 RL Oncogene 17:1305-1312(1998).
 RN [2] Sequence from N.A.
 RA Kato S.; Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.
 RN [3] Sequence from N.A.
 RC TISSUE-Testis;
 RA Siegrist S., Ferai C., Chami M., Solhonne B., Rajpert-De Meyts E.,
 RA Ghellen G., Bulle F.; "Homo sapiens testis HREV107-3 mRNA.";
 RT Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
 RN [4] Sequence from N.A.
 RC TISSUE-Colon;
 RX MEDLINE=22288257; PubMed=12477932;
 RA Straubhaar R.L., Feingold E., Grouse L.H., Derge J.G., Schuller G.D.,
 RA Klausner R.D., Collins F.S., Wagner L., Sherman C.M., Schaefer C.F., Bhat N.K.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer R.F.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J.J., Hsieh P.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong J.,
 RA Stapleton M., Soares M.B., Borodalo M.F., Casavant T.L., Schatz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshimori S., Carninci P., Prange C.,
 RA Raha S.S., Lognallano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Zosak S.A., McEwan P.J., McKerman K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Rulyk S.W.,

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 CC or send an email to license@isb-sib.ch).

 DR EMBL; X76453; CA53991_1; -.
 DR PIR; S42793; S42794;
 DR Interpro; IPR007053; NC.
 DR PFM; PF04970; NC; 1.
 SQ SEQUENCE 160 AA; 17778 MW; A0B32D6FA0BD12E6 CRC64;

Query Match 49.7%; Score 423.5; DB 1; Length 160;
 Best Local Similarity 52.5%; Pred. No. 7.6e-35; Mismatches 50; Indels 1; Gaps 1;
 Matches 83; Conservative 24; Mismatches 50; Indels 1; Gaps 1;

QY 4 PHQEPKGDLLIFRPGVSHWALYIGDYVHLAPSEYRAGSSVFSLNSAVRE 63
 Db 2 PIPEKEPDDELLIFRPVWISHWALYIGDYVHLAPSEYRAGSSVFSLNSAVRE 61

QY 64 RLWDVGGCCYRVNSLDHEYQPRPVVISSAKEMQKOMKYSIVSRNCHFPTOL 123
 Db 62 LIRDVAGKDKYQVNKNHDKKEYTPLPLNKIQRAEELVQEVLYRLTSENCEHFVNLRYC 121

QY 124 KSKRKQEKAKKEVGVATLAGLILVAGCFSXKIRYQKATA 161
 Db 122 VERSDQV-RDTVKAUTVIGVGLAALGHGVMSRNKQ 158

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 31, 2004, 10:50:09 ; Search time: 42 Seconds

(without alignments)
1232.023 Million cell updates/sec

Title: US-10-020-618-1

Perfect score: 852

Sequence: I M A S P H Q E P K P G D L I E F R I G G I L V V A G C S F F X I R R Y Q K K A T A 164

Scoring table: BLOSUM62

Gapopen 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTRMBL 2.5:*

- 1: sp_archea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phage:*
- 10: sp_plant:*
- 11: sp_reddent:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriap:*
- 17: sp_archeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	411.5	48.3	162	11	Q8R3U1
2	390.5	45.8	168	11	Q8BWF7
3	380	44.6	269	4	Q8NE88
4	345	40.5	168	4	Q8EW59
5	258.5	30.3	235		Q8T778
6	150.5	17.7	231	11	Q9J161
7	146.5	17.2	230	4	Q95237
8	146.5	17.2	230	4	Q8NT16
9	146.5	17.2	230	6	Q8GJ12
10	146.5	17.2	231	11	Q9J160
11	136	16.0	310	4	Q86KNN
12	127.5	15.0	292	4	Q8TAM5
13	125	14.7	240	16	Q8EGZ0
14	123.5	14.5	292	4	Q86KN4
15	123.5	14.5	292	4	Q8TUZ2
16	122.5	14.4	292	11	Q9D650

Result No.	Score	Query	Match Length	DB ID	Description
1	411.5	48.3	162	11	Q8R3U1
2	390.5	45.8	168	11	Q8BWF7
3	380	44.6	269	4	Q8NE88
4	345	40.5	168	4	Q8EW59
5	258.5	30.3	235		Q8T778
6	150.5	17.7	231	11	Q9J161
7	146.5	17.2	230	4	Q95237
8	146.5	17.2	230	4	Q8NT16
9	146.5	17.2	230	6	Q8GJ12
10	146.5	17.2	231	11	Q9J160
11	136	16.0	310	4	Q86KNN
12	127.5	15.0	292	4	Q8TAM5
13	125	14.7	240	16	Q8EGZ0
14	123.5	14.5	292	4	Q86KN4
15	123.5	14.5	292	4	Q8TUZ2
16	122.5	14.4	292	11	Q9D650

Result No.	Score	Query	Match Length	DB ID	Description
1	411.5	48.3	162	11	Q8R3U1
2	390.5	45.8	168	11	Q8BWF7
3	380	44.6	269	4	Q8NE88
4	345	40.5	168	4	Q8EW59
5	258.5	30.3	235		Q8T778
6	150.5	17.7	231	11	Q9J161
7	146.5	17.2	230	4	Q95237
8	146.5	17.2	230	4	Q8NT16
9	146.5	17.2	230	6	Q8GJ12
10	146.5	17.2	231	11	Q9J160
11	136	16.0	310	4	Q86KNN
12	127.5	15.0	292	4	Q8TAM5
13	125	14.7	240	16	Q8EGZ0
14	123.5	14.5	292	4	Q86KN4
15	123.5	14.5	292	4	Q8TUZ2
16	122.5	14.4	292	11	Q9D650

Result No.	Score	Query	Match Length	DB ID	Description
1	411.5	48.3	162	11	Q8R3U1
2	390.5	45.8	168	11	Q8BWF7
3	380	44.6	269	4	Q8NE88
4	345	40.5	168	4	Q8EW59
5	258.5	30.3	235		Q8T778
6	150.5	17.7	231	11	Q9J161
7	146.5	17.2	230	4	Q95237
8	146.5	17.2	230	4	Q8NT16
9	146.5	17.2	230	6	Q8GJ12
10	146.5	17.2	231	11	Q9J160
11	136	16.0	310	4	Q86KNN
12	127.5	15.0	292	4	Q8TAM5
13	125	14.7	240	16	Q8EGZ0
14	123.5	14.5	292	4	Q86KN4
15	123.5	14.5	292	4	Q8TUZ2
16	122.5	14.4	292	11	Q9D650

Result No.	Score	Query	Match Length	DB ID	Description
1	411.5	48.3	162	11	Q8R3U1
2	390.5	45.8	168	11	Q8BWF7
3	380	44.6	269	4	Q8NE88
4	345	40.5	168	4	Q8EW59
5	258.5	30.3	235		Q8T778
6	150.5	17.7	231	11	Q9J161
7	146.5	17.2	230	4	Q95237
8	146.5	17.2	230	4	Q8NT16
9	146.5	17.2	230	6	Q8GJ12
10	146.5	17.2	231	11	Q9J160
11	136	16.0	310	4	Q86KNN
12	127.5	15.0	292	4	Q8TAM5
13	125	14.7	240	16	Q8EGZ0
14	123.5	14.5	292	4	Q86KN4
15	123.5	14.5	292	4	Q8TUZ2
16	122.5	14.4	292	11	Q9D650

Database : SPTRMBL 2.5:*

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTRMBL 2.5:*

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTRMBL 2.5:*

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTRMBL 2.5:*

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTRMBL 2.5:*

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Result No.	Score	Query	Match Length	DB ID	Description
1	411.5	48.3	162	11	Q8R3U1
2	390.5	45.8	168	11	Q8BWF7
3	380	44.6	269	4	Q8NE88
4	345	40.5	168	4	Q8EW59
5	258.5	30.3	235		Q8T778
6	150.5	17.7	231	11	Q9J161
7	146.5	17.2	230	4	Q95237
8	146.5	17.2	230	4	Q8NT16
9	146.5	17.2	230	6	Q8GJ12
10	146.5	17.2	231	11	Q9J160
11	136	16.0	310	4	Q86KNN
12	127.5	15.0	292	4	Q8TAM5
13	125	14.7	240	16	Q8EGZ0
14	123.5	14.5	292	4	Q86KN4
15	123.5	14.5	292	4	Q8TUZ2
16	122.5	14.4	292	11	Q9D650

Result No.	Score	Query	Match Length	DB ID	Description
1	411.5	48.3	162	11	Q8R3U1
2	390.5	45.8	168	11	Q8BWF7
3	380	44.6	269	4	Q8NE88
4	345	40.5	168	4	Q8EW59
5	258.5	30.3	235		Q8T778
6	150.5	17.7	231	11	Q9J161
7	146.5	17.2	230	4	Q95237
8	146.5	17.2	230	4	Q8NT16
9	146.5	17.2	230	6	Q8GJ12
10	146.5	17.2	231	11	Q9J160
11	136	16.0	310	4	Q86KNN
12	127.5	15.0	292	4	Q8TAM5
13	125	14.7	240	16	Q8EGZ0
14	123.5	14.5	292	4	Q86KN4
15	123.5	14.5	292	4	Q8TUZ2
16	122.5	14.4	292	11	Q9D650

Result No.	Score	Query	Match Length	DB ID	Description
1	411.5	48.3	162	11	Q8R3U1
2	390.5	45.8	168	11	Q8BWF7
3	380	44.6	269	4	Q8NE88
4	345	40.5	168	4	Q8EW59
5	258.5	30.3	235		Q8T778
6	150.5	17.7	231	11	Q9J161
7	146.5	17.2	230	4	Q95237
8	146.5	17.2	230	4	Q8NT16
9	146.5	17.2	230	6	Q8GJ12
10	146.5	17.2	231	11	Q9J160
11	136	16.0	310	4	Q86KNN
12	127.5	15.0	292	4	Q8TAM5
13	125	14.7	240	16	Q8EGZ0
14	123.5	14.5	292	4	Q86KN4
15	123.5	14.5	292	4	Q8TUZ2
16	122.5	14.4	292	11	Q9D650

Result No.	Score	Query	Match Length	DB ID	Description
1	411.5	48.3	162	11	Q8R3U1
2	390.5	45.8	168	11	Q8BWF7
3	380	44.6	269	4	Q8NE88
4	345	40.5	168	4	Q8EW59
5	258.5	30.3	235		Q8T778
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8	146.5	17.2	230	4	Q8NT16
9	146.5	17.2	230	6	Q8GJ12
10	146.5	17.2	231	11	Q9J160
11	136	16.0	310	4	Q86KNN
12	127.5	15.0	292	4	Q8TAM5
13	125	14.7	240	16	Q8EGZ0
14	123.5	14.5	292	4	Q86KN4
15	123.5	14.5	292</td		

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 31, 2004, 10:55:44 ; Search time 22 Seconds

(without alignments) 384.848 Million cell updates/sec

Title: US-10-020-618-1

Perfect score: 852

Sequence: 1 MASPHQEPKPGDLIBIFRIGG.....ILVWAGCSFFKIRYQKATA 164

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued Patents AA:*

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2: /cgn2_6/ptodata/2/iaa/5B/COMB_pep:*
3: /cgn2_5/ptodata/2/iaa/6A/COMB_pep:*
4: /cgn2_5/ptodata/2/iaa/6B/COMB_pep:*
5: /cgn2_6/ptodata/2/iaa/PCRS COMB_pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result %

Result No.	Score	Query	Match Length	DB	ID	Description
1	850	99.8	164	4	US-08-801-742-1	Sequence 1, Appli
2	840	98.6	154	1	US-08-801-303-8	Sequence 8, Appli
3	840	98.6	164	3	US-08-995-531-8	Sequence 9, Appli
4	839	98.5	154	1	US-08-803-303-12	Sequence 10, Appli
5	839	98.5	164	3	US-08-996-533-12	Sequence 11, Appli
6	623	73.1	124	1	US-08-800-303-3	Sequence 12, Appli
7	623	73.1	124	3	US-08-800-533-3	Sequence 13, Appli
8	423.5	49.7	160	4	US-08-801-742-4	Sequence 14, Appli
9	417.5	49.0	162	4	US-08-801-742-3	Sequence 15, Appli
10	417.5	49.0	173.8	4	US-08-480-049-2	Sequence 16, Appli
11	85.5	10.0	212	4	US-09-328-352-6684	Sequence 17, Appli
12	72.5	8.5	462	4	US-07-328-352-7128	Sequence 18, Appli
13	71.5	8.4	674	4	US-09-480-0398-9158	Sequence 19, Appli
14	71.5	8.4	964	4	US-09-556-877-177	Sequence 20, Appli
15	71.5	8.4	964	4	US-09-620-412-177	Sequence 21, Appli
16	71.5	8.4	964	4	US-09-598-419-177	Sequence 22, Appli
17	71.5	8.4	977	4	US-09-556-877-191	Sequence 23, Appli
18	71.5	8.4	977	4	US-09-620-412-191	Sequence 24, Appli
19	71.5	8.4	977	4	US-09-598-419-191	Sequence 25, Appli
20	71	8.3	235	2	US-08-760-745-1	Sequence 26, Appli
21	70	8.2	287	3	US-09-105-697-7	Sequence 27, Appli
22	70	8.2	830	1	US-07-977-434-6	Sequence 28, Appli
23	70	8.2	830	1	US-08-458-819-6	Sequence 29, Appli
24	70	8.2	830	5	PCT-US-07055-6	Sequence 30, Appli
25	69	8.1	347	3	US-08-445-515-58	Sequence 31, Appli
26	69	8.1	348	3	US-08-445-515-56	Sequence 32, Appli
27	68.5	8.0	599	4	US-09-252-991-19543	Sequence 33, Appli

Query	Match	Similarity	Score	DB	Length	Sequence 10, Appli
Best Local Matches	100.0%	Pred. No.	2e-94;	US-09-295-814E-10	8.0	Sequence 10, Appli
Conservative	0;	Mismatches	0;	US-09-343-361-10	8.0	Sequence 11, Appli
		Indels	0;	PCT-US-93-0195-10	8.0	Sequence 12, Appli
		Gaps	0;	US-09-708-426-11	8.0	Sequence 13, Appli
				US-09-680-078-9	8.0	Sequence 14, Appli
				US-09-849-303-25	8.0	Sequence 15, Appli
				US-09-800-729-150	8.0	Sequence 16, Appli
				US-09-480-039A-9458	8.0	Sequence 17, Appli
				US-09-105-697-8	7.9	Sequence 18, Appli
				US-09-480-039A-11814	7.9	Sequence 19, Appli
				US-09-107-532A-7249	7.8	Sequence 20, Appli
				US-09-328-352-7052	7.8	Sequence 21, Appli
				US-09-408-905-31	7.8	Sequence 22, Appli
				US-09-540-159-1	7.8	Sequence 23, Appli
				US-09-548-159-3	7.8	Sequence 24, Appli
				US-08-446-855A-2	7.8	Sequence 25, Appli

ALIGNMENTS

RESULT 1

US-08-801-742-1

; Sequence 1, Application US/0801742

; Patent No. 6359123

; GENERAL INFORMATION:

; APPLICANT: Bandman, Olga

; TITLE OF INVENTION: A NOVEL H-REV107-LIKE

; NUMBER OF SEQNCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Drive

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPILER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/801-742

FILEING DATE: Filed Herewith

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36-749

REFERENCE/DOCKET NUMBER: FP-02000 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-845-4166

TELEFAX: 415-845-0555

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 164 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-801-742-1

Query Match Similarity Score DB; Length Sequence 10, Appli

Best Local Matches

Conservative

Indels

Gaps

Sequence 1, Appli

Sequence 2, Appli

Sequence 3, Appli

Sequence 4, Appli

Sequence 5, Appli

Sequence 6, Appli

Sequence 7, Appli

Sequence 8, Appli

Sequence 9, Appli

Sequence 10, Appli

Sequence 11, Appli

Sequence 12, Appli

Sequence 13, Appli

Sequence 14, Appli

Sequence 15, Appli

Sequence 16, Appli

Sequence 17, Appli

Sequence 18, Appli

Query 1 MASPHQEPKPGDLIBIFRIGEHWALYGGYVHLAPPSEYPAGGSVFSVNSAEV 60

RESULT 2
US-08-808-303-B
Sequence 8, Application US/08808303
; Sequence 8, Application US/08996533
; Patent No. 629457
; GENERAL INFORMATION:
; APPLICANT: Nagpal, Sunil
; ADDRESS: Knobbe, Martens, Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/808,303
; FILING DATE:
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Altman, Daniel E
; REFERENCE/DOCKET NUMBER: 34,115
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 714-760-0404
; TELEFAX: 714-760-9502
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 164 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-08-808-303-8

Query Match 98.6%; Score 840; DB 1; Length 164;
Best Local Similarity 98.2%; Pred. No. 3.2e-93; Matches 161; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Matches 161; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MASPHQEPRPDKDIBIFRIGYEHNALYIGDGYVHHLAPSEYPAGSSSVFSVLNSAEV 60
Db 1 MASPHQEPRPDKDIBIFRIGYEHNALYIGDGYVHHLAPSEYPAGSSSVFSVLNSAEV 60

Qy 61 KRGRLIEDVGGCCYRVNNSLDHEQPRPYEVITISSAKEMYQKOMKYSIVSRNCFHFVTL 120
Db 61 KRGRLIEDVGGCCYRVNNSLDHEQPRPYEVITISSAKEMYQKOMKYSIVSRNCFHFVTL 120

Qy 121 RYGRSCKQVEKAKVEGVATAGLILVWAGCSFXIRRQKATA 164
Db 121 RYGRSCKQVEKAKVEGVATAGLILVWAGCSFAIRRQKATA 164

Qy 61 KRGRLIEDVGGCCYRVNNSLDHEQPRPYEVITISSAKEMYQKOMKYSIVSRNCFHFVTL 120
Db 61 KRGRLIEDVGGCCYRVNNSLDHEQPRPYEVITISSAKEMYQKOMKYSIVSRNCFHFVTL 120

RESULT 3
US-08-996-533-B
Sequence 8, Application US/08996533
; Sequence 8, Application US/08808303
; Patent No. 577687
; GENERAL INFORMATION:
; APPLICANT: Nagpal, Sunil
; ADDRESS: Knobbe, Martens, Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/996,533
; FILING DATE:
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/808,303
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Altman, Daniel E
; REGISTRATION NUMBER: 34,115
; REFERENCE/DOCKET NUMBER: ALRGN. 062A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 714-760-0404
; TELEFAX: 714-760-9502
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 164 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-08-996-533-8

Query Match 98.6%; Score 840; DB 3; Length 164;
Best Local Similarity 98.2%; Pred. No. 3.2e-93; Matches 161; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Matches 161; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MASPHQEPRPDKDIBIFRIGYEHNALYIGDGYVHHLAPSEYPAGSSSVFSVLNSAEV 60
Db 1 MASPHQEPRPDKDIBIFRIGYEHNALYIGDGYVHHLAPSEYPAGSSSVFSVLNSAEV 60

Qy 61 KRGRLIEDVGGCCYRVNNSLDHEQPRPYEVITISSAKEMYQKOMKYSIVSRNCFHFVTL 120
Db 61 KRGRLIEDVGGCCYRVNNSLDHEQPRPYEVITISSAKEMYQKOMKYSIVSRNCFHFVTL 120

Qy 121 RYGRSCKQVEKAKVEGVATAGLILVWAGCSFXIRRQKATA 164
Db 121 RYGRSCKQVEKAKVEGVATAGLILVWAGCSFAIRRQKATA 164

RESULT 4
US-08-808-303-12
Sequence 12, Application US/08808303
; Sequence 12, Application US/08996533
; Patent No. 577687
; GENERAL INFORMATION:
; APPLICANT: Nagpal, Sunil
; ADDRESS: Knobbe, Martens, Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/996,533
; FILING DATE:
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/808,303
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Altman, Daniel E
; REGISTRATION NUMBER: 34,115
; REFERENCE/DOCKET NUMBER: ALRGN. 062A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 714-760-0404
; TELEFAX: 714-760-9502
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 164 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-08-996-533-8

Query Match 98.6%; Score 840; DB 3; Length 164;
Best Local Similarity 98.2%; Pred. No. 3.2e-93; Matches 161; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Matches 161; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MASPHQEPRPDKDIBIFRIGYEHNALYIGDGYVHHLAPSEYPAGSSSVFSVLNSAEV 60
Db 1 MASPHQEPRPDKDIBIFRIGYEHNALYIGDGYVHHLAPSEYPAGSSSVFSVLNSAEV 60

Qy 61 KRGRLIEDVGGCCYRVNNSLDHEQPRPYEVITISSAKEMYQKOMKYSIVSRNCFHFVTL 120
Db 61 KRGRLIEDVGGCCYRVNNSLDHEQPRPYEVITISSAKEMYQKOMKYSIVSRNCFHFVTL 120

Qy 121 RYGRSCKQVEKAKVEGVATAGLILVWAGCSFXIRRQKATA 164
Db 121 RYGRSCKQVEKAKVEGVATAGLILVWAGCSFAIRRQKATA 164

Page 1

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OM protein - protein search, using sw model

Run on: March 31, 2004, 10:58:15 ; Search time 40 seconds
(without alignments)

Scoring table: BLCSIM62
Gappen 10.0 , Gapext 0.5

Searched: US-10-020-618-1
Perfect score: 852
Sequence: 1 MASPHQEPKPGDLISIFRLGYEHWALYIGDGYVHLAPSS

Total number of hits satisfying chosen parameters: 1065169
Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
1: /cgn2_6/prodata/1/pdbpa/US07_PUBCOMB.pep:
2: /cgn2_6/prodata/1/pdbpa/pct NEW PUB.pep:
3: /cgn2_6/prodata/1/pdbpa/US06_PUBCOMB.pep:
4: /cgn2_6/prodata/1/pdbpa/US06_PUBCOMB.pep:
5: /cgn2_6/prodata/1/pdbpa/US07_NEW_PUBCOMB.pep:
6: /cgn2_6/prodata/1/pdbpa/PCTNS_PUBCOMB.pep:
7: /cgn2_6/prodata/1/pdbpa/US08_NEW_PUB.pep:
8: /cgn2_6/prodata/1/pdbpa/US08_PUBCOMB.pep:
9: /cgn2_6/prodata/1/pdbpa/US09_PUBCOMB.pep:
10: /cgn2_6/prodata/1/pdbpa/US09_PUBCOMB.pep:
11: /cgn2_6/prodata/1/pdbpa/US09_C_PUBCOMB.pep:
12: /cgn2_6/prodata/1/pdbpa/US09_NEW_PUB.pep:
13: /cgn2_6/prodata/1/pdbpa/US09_PUBCOMB.pep:
14: /cgn2_6/prodata/1/pdbpa/US09_PUBCOMB.pep:
15: /cgn2_6/prodata/1/pdbpa/US09_PUBCOMB.pep:
16: /cgn2_6/prodata/1/pdbpa/US10_NEW_PUB.pep:
17: /cgn2_6/prodata/1/pdbpa/US10_NEW_PUB.pep:
18: /cgn2_6/prodata/1/pdbpa/US60_PUBCOMB.pep:
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	851	99 9	164 12	US-10-616-942-2
2	851	99 9	164 12	US-10-616-942-2
3	850	99 8	164 13	US-10-616-942-1
4	839	98 5	164 14	US-10-171-311-198
5	423.5	49.7	160 13	US-10-020-618-4
6	417.5	49.0	162 12	US-10-616-942-2
7	417.5	49.0	162 12	US-10-616-942-2
8	417.5	49.0	162 13	US-10-020-618-3
9	415.5	48.8	169 9	US-09-925-001-141
10	350	41.1	168 12	US-10-616-942-1
11	350	41.1	168 12	US-10-616-942-1
12	345	23.7	10 10	US-09-764-891-3247
13	135	82	10 10	US-09-764-891-3247
14	125	14.8	99 10	US-09-764-891-3247
15	99.5	11.7	296 12	US-10-425-114-64719

RESULT 1
US-10-616-942-2
; Sequence 2, Application US/10616942
; Publication No. US20040048339A1
; GENERAL INFORMATION:
; APPLICANT: Kato, Seiichi
; TITLE OF INVENTION: HUMAN PROTEINS HAVING TRANSMEMBRANE FILE REFERENCE: GIN-6710C0US
; CURRENT APPLICATION NUMBER: US/10-616,942
; CURRENT FILING DATE: 2003-07-11
; PRIOR APPLICATION NUMBER: US/09-5129,100
; PRIOR FILING DATE: 2000-08-21
; PRIOR APPLICATION NUMBER: JP 0276269
; PRIOR FILING DATE: 1997-10-08
; PRIOR APPLICATION NUMBER: PCT/JP98/04474
; PRIOR FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-616-942-2
Query Match 99 %; Score 851; DB 12;
Best Local Similarity 99 %; Pred. No. 1.3e-85;
Matches 163; Conservative 0; Mismatches 1;

Qy	1 MASPHQEPKPGDLISIFRLGYEHWALYIGDGYVHLAPSS
Db	1 MASPHQEPKPGDLISIFRLGYEHWALYIGDGYVHLAPSS
Db	1 MASPHQEPKPGDLISIFRLGYEHWALYIGDGYVHLAPSS
Qy	61 KERIELDVVGCCYVNNSLDEHQVOPRPEVIISSAKEM
Db	61 KERIELDVVGCCYVNNSLDEHQVOPRPEVIISSAKEM

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

1	.851	99.9	164	12	US-10-516-942-2	Sequence 2, Appli
2	.851	99.9	164	12	US-10-516-942-16	Sequence 16, Appli
3	.851	99.8	164	13	US-10-516-942-1	Sequence 1, Appli
4	.839	98.5	164	14	US-10-171-311-198	Sequence 1, Appli
5	.823	49.7	160	13	US-10-020-618-4	Sequence 198, Appli
6	.417.5	49.0	162	12	US-10-616-942-26	Sequence 4, Appli
7	.417.5	49.0	162	12	US-10-616-942-27	Sequence 26, Appli
8	.417.5	49.0	162	13	US-10-020-618-3	Sequence 27, Appli
9	.415.5	48.8	169	9	US-09-925-300-1341	Sequence 3, Appli
0	.350	41.1	168	12	US-10-616-942-1	Sequence 1, Appli
1	.350	41.1	168	12	US-10-616-942-14	Sequence 14, Appli
2	.345	40.5	237	10	US-09-616-891-3842	Sequence 3842, Appli
3	.135	15.8	82	10	US-09-764-891-3247	Sequence 3247, Appli
4	.126	14.9	82	10	US-09-754-891-3560	Sequence 3560, Appli
99.5	11.7	296	12	US-10-425-114-64719	Sequence 64719, Appli	

RESULT 2
US-10-616-942-16
; Sequence 16, Application US/10616942
; Publication No. US20040048339A1
; GENERAL INFORMATION:
; APPLICANT: Rato, Seishi
; APPLICANT: Sekine, Shingo
; TITLE OF INVENTION: HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND FILE REFERENCE: GIN-6710CPS
; CURRENT APPLICATION NUMBER: US/10/616,942
; CURRENT FILING DATE: 2003-07-11
; PRIOR APPLICATION NUMBER: US/09/529,100
; PRIOR FILING DATE: 2000-08-21
; PRIOR APPLICATION NUMBER: JP 0276269
; PRIOR FILING DATE: 1997-10-08
; PRIOR APPLICATION NUMBER: PCT/JP98/04474
; PRIOR FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 28
; SEQ ID NO: 16
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-616-942-16
Query Match 99.9%; Score 851; DB 12; Length 164;
Best Local Similarity 99.4%; Pred. No. 1.3e-85; Matches 163; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Matches 163; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MASPHQEPKPGDILIEFRIGEHWALIYGIGYVHLAPSEYPGAGSSSVFSLNSEV 60
Db 1 MASPHQEPKPGDILIEFRIGEHWALIYGIGYVHLAPSEYPGAGSSSVFSLNSAEV 60
Qy 61 KERLELDWVGCCYRNTNSLDEYQRPVVISSAKEMYGOKMYKTSVRNCHEFTQL 120
Db 61 KERLELDWVGCCYRNTNSLDEYQRPVVISSAKEMYGOKMYKTSVRNCHEFTQL 120
61 KERLELDWVGCCYRNTNSLDEYQRPVVISSAKEMYGOKMYKTSVRNCHEFTQL 120
121 RYGSRKCKQVEKAKVEGVNATGILWVAGCSFXRRYOKATA 164
Db 121 RYGSRKCKQVEKAKVEGVNATGILWVAGCSFAIRRQKATA 164
RESULT 3
US-10-020-618-1
; Sequence 1, Application US/10020618
; Publication No. US20020156256A1
; GENERAL INFORMATION:
; APPLICANT: Bandhan, Olga
; TITLE OF INVENTION: A NOVEL H-REV107-LIKE PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/020,618
; FILING DATE: 06-Dec-2001
; US-10-020-618-1
; INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 164 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-020-618-1
Query Match 99.8%; Score 850; DB 13; Length 164;
Best Local Similarity 100.0%; Pred. No. 1.6e-85; Matches 164; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Matches 164; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASPHQEPKPGDILIEFRIGEHWALIYGIGYVHLAPSEYPGAGSSSVFSLNSEV 60
Db 1 MASPHQEPKPGDILIEFRIGEHWALIYGIGYVHLAPSEYPGAGSSSVFSLNSAEV 60
Qy 61 KERLELDWVGCCYRNTNSLDEYQRPVVISSAKEMYGOKMYKTSVRNCHEFTQL 120
Db 61 KERLELDWVGCCYRNTNSLDEYQRPVVISSAKEMYGOKMYKTSVRNCHEFTQL 120
61 KERLELDWVGCCYRNTNSLDEYQRPVVISSAKEMYGOKMYKTSVRNCHEFTQL 120
121 RYGSRKCKQVEKAKVEGVNATGILWVAGCSFXRRYOKATA 164
Db 121 RYGSRKCKQVEKAKVEGVNATGILWVAGCSFAIRRQKATA 164
RESULT 4
US-10-171-311-198
; Sequence 198, Application US/10171311
; Publication No. US20030087270A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Chen, Yan
; APPLICANT: Zhao, Xumei
; APPLICANT: Mohan, John
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Glatt, Karen
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Herish, Sebastian
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR TREATMENT OF CERVICAL CANCER
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; FILE REFERENCE: MRI-035
; CURRENT APPLICATION NUMBER: US/10/171,311
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: US 60/298,159
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,155
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/335,936
; PRIOR FILING DATE: 2001-11-14
; NUMBER OF SEQ ID NOS: 238
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 198
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-171-311-198
Query Match 98.5%; Score 839; DB 14; Length 164;
Best Local Similarity 98.2%; Pred. No. 2.7e-84; Matches 161; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Matches 161; Conservative 0; Mismatches 3; Indels 0; Gaps 0;